AMENDMENTS TO THE CLAIMS

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1. (Currently amended) An apparatus characterized by comprising comprising:
a reaction chamber forming a space in which a substrate is to be processed;
a gas supply pipe which is connected to said reaction chamber and which supplies
processing gas for said substrate, substrate; and
a gas exhaust pipe for exhausting an inside of said reaction ehamber, wherein chamber;
a gas reservoir for storing gas to be supplied to said reaction chamber_chamber; and
a bypass line which bypasses said gas reservoir are reservoir, said gas reservoir and said
bypass line being juxtaposed to each other in a portion of said gas supply pipe; and
said substrate processing apparatus further comprises a control unit which allows the
processing gas to be supplied to said reaction chamber using by selecting one of said gas
reservoir and said bypass line and using the selected one of said gas reservoir and said bypass
<u>line</u> when said substrate is processed.

- 2. (New) An apparatus comprising:
- a reaction chamber forming a space for holding a substrate to be processed;
- a mass flow controller;
- a gas supply pipe in fluid communication with said mass flow controller and said reaction chamber for carrying a processing gas from said mass flow controller to said reaction chamber;
 - at least one valve in said gas supply pipe;
 - a gas exhaust pipe for exhausting an inside of said reaction chamber;
- a gas reservoir in fluid communication with said gas supply pipe for receiving said processing gas from said mass flow controller, storing said processing gas from said mass flow controller, and selectively releasing said processing gas to said reaction chamber;
- a bypass line in fluid communication with a first point in said gas supply pipe between said mass flow controller and said gas reservoir and a second point in said gas supply pipe between said gas reservoir and said reaction chamber, said bypass line bypassing said gas reservoir; and
 - a control unit controlling said at least one valve to selectively open a first path from said

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mass flow controller to said gas reservoir, a second path from said gas reservoir to said reaction chamber and a third path from said mass flow controller to said reaction chamber by way of said

bypass line.

3. (New) The apparatus of claim 2 wherein said gas reservoir has an internal volume and

said internal volume is filled with the processing gas.

4. (New) The apparatus of claim 2 wherein said at least one valve comprises a first valve

between said first point and said gas reservoir, a second valve between said gas reservoir and

said second point and a third valve in said bypass line.

5. (New) The apparatus of claim 2 having a first configuration wherein said mass flow

controller is connected to said reaction chamber by way of said gas reservoir and not by way of

said bypass line and a second configuration wherein said mass flow controller is connected to

said reaction chamber by way of said bypass line and not by way of said gas reservoir.

6. (New) A method comprising the steps of;

providing a reaction chamber forming a space for holding a substrate to be processed;

providing a mass flow controller;

placing a gas supply pipe in fluid communication with the mass flow controller and the

reaction chamber;

providing at least one valve in the gas supply pipe;

providing a gas exhaust pipe from the reaction chamber;

providing a gas reservoir in fluid communication with the gas supply pipe and the

reaction chamber;

placing a bypass line in fluid communication with a first point in the gas supply pipe

between the mass flow controller and the gas reservoir and a second point in the gas supply pipe

between the gas reservoir and the reaction chamber, the bypass line bypassing the gas reservoir;

and

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controlling the mass flow controller to provide a processing gas to the first point and controlling the at least one valve to selectively place the mass flow controller in fluid communication with the gas reservoir at a first time and to selectively place the mass flow controller in fluid communication with the reaction chamber by way of the bypass line at a second time.

7. (New) The method of claim 6 wherein said steps of controlling the mass flow controller to provide a processing gas to the first point and controlling the at least one valve to selectively place the mass flow controller in fluid communication with the gas reservoir comprises the steps of providing the processing gas to the gas reservoir and releasing the processing gas from the gas reservoir.

8. (New) The method of claim 7 wherein said step of providing a gas reservoir comprises the step of providing a gas reservoir having an internal volume and wherein said step of providing the processing gas to the gas reservoir comprises the step of filling the internal volume with the processing gas.

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